

DEPARTMENT OF
COMMUNITY SERVICES

March 6, 2017



TO: Catherine Dorau, Associate Planner
FROM: Charles R. Guarino, Civil Engineer II *CRG*
SUBJECT: 180 Wood Pond Road

Based on my review of the plan titled "Wetland Regulation Activity Jarvis Residence 180 Wood Pond Road West Hartford, CT. 1/12/17 Revised 3/1/17", I offer the following engineering comments:

1. The 2002 Connecticut Guidelines for Soil Erosion and Sediment Control Manual (pg. 5-2-5) slope grade limitations states "Where a slope is to be vegetated but not mowed, the slope shall not be any steeper than 2:1". The existing slope near the southeast corner of the house is vegetated and almost twice as steep as what is allowed in the manual, in addition sections the bottom of the slope are being undercut along the shoreline which farther destabilizes the slope. I recognize the slope has been mostly stable for decades however giving the following:
 - a. The slope is almost twice as steep as allowed.
 - b. The bottom of the slope is undercut at the water's edge.
 - c. Excavation and construction activity will be occurring at the top of the slope.

It is likely that slope stability will become a problem in the future. Therefore I still recommend the house should be moved to the northwest to get it farther from the steep slope. The relocation to the northwest will not interfere with the proposed rain garden. I recommend the minimum distance from the house to the lake should be calculated as if the slope was 2:1 and add 10 feet from the top of the slope to the house.

2. I recommend constructing a stone infiltration trench along the edge of the driveway in the vicinity of the low point (Elev. 179.5) to pretreat the stormwater before it enters the lake.
3. The applicant claims the sanitary sewer pump station was not built within the 20'x50' easement. It appears landowner and the MDC will have to revise the easement area.

CRG:sr

C: Duane J. Martin, P.E., Town Engineer



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